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April 30, 1999

Box Patent Applications
Assistant Commissioner for Patents
Washington, DC 20231

SUBJECT: A FILTER SYSTEM WITH REDUCED SWITCH THERMAL
NOISE AND A $\Sigma\Delta$ MODULATOR USING SUCH A FILTER
AD-200J

Dear Sir:

Enclosed is a patent application including formal papers as follows:

Applicant: Adams et al..

Title: A FILTER SYSTEM WITH REDUCED SWITCH THERMAL
NOISE AND A $\Sigma\Delta$ MODULATOR USING SUCH A FILTER

No. Pages Specification: 8; Claims: 5; Abstract of Disclosure: 1; Drawings: 2

Filing Fee Calculation

Basic Fee: \$ 760.00

Additional Fees:

Total number of claims in excess of 20: 0 x \$18.00 \$ 0.00

Number of independent claims in
excess of 3: 1 x \$78.00 \$ 78.00

TOTAL FILING FEE: \$ 838.00

EXPRESS MAIL CERTIFICATE NO. EM589304477US

00302059-043049

Assistant Commissioner for Patents

April 29, 1999

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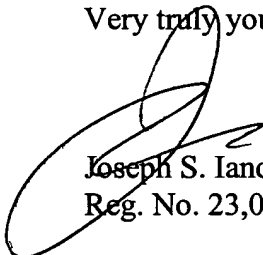
A check in the amount of \$838.00 for the filing fee is enclosed. If any payment during prosecution is found to be incorrect, please charge any deficiency or credit any overpayment to my Deposit Account 09-0002. A copy of this letter is enclosed for use by the Finance Branch in the event that it is necessary to make any charge or credit to my deposit account.

If for any reason this APPLICATION is found to be incomplete, or if at any time it appears that a telephone conference with counsel would help advance prosecution, please telephone the undersigned collect in Waltham, Massachusetts, (781) 890-5678.

In addition, pursuant to rule 1.136(a)(3), the office is hereby authorized to treat any future reply requiring an extension of time as incorporating a request therefore. Also, any request or Petition for an Extension of time notwithstanding an inadvertent reference in the Petition to a shorter period of time is to be treated as requesting the appropriate length of time.

Kindly acknowledge receipt of the foregoing by returning the enclosed self-addressed postcard.

Very truly yours,


Joseph S. Iandiorio
Reg. No. 23,095


JSI:abh
Enclosures

JC551 U.S. PTO
09/302859



CERTIFICATE OF EXPRESS MAILING

I hereby certify that the attached patent application is being deposited with the United States Postal Service, Express Mail Certificate No EM589304477US, on this 29th day of April, 1999, in an envelope addressed to: Box Patent Applications, Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office, Washington, DC 20231.



Alexis Haggerty